

LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS

1.-24. (Canceled)

25. (Previously presented) An electric machine comprising:

a rotor,

a stator having at least one winding system constructed of a plurality of coils, each coil having winding strands with ends,

at least one circuit support disposed on an end face of the stator and formed as a printed circuit board having formed thereon channels with printed conductor tracks interconnecting the winding strands in the channels in a predetermined wiring pattern and webs arranged between the conductor tracks for separating electrical potentials and lengthening leakage paths between different phases, the at least one circuit support further comprising snap-on connections engaging with the stator and securing the at least one circuit support on the stator, and

a cover having webs meshing with corresponding webs of the at least one circuit support and holding the winding strands down in the channels and maintaining the leakage paths between the different phases

26. (Previously presented) The electric machine of claim 25, wherein the stator comprises a plurality of teeth and the winding system comprises toothed coils, and wherein each of the toothed coils surrounds a corresponding tooth of the stator.

27. (Previously presented) The electric machine of claim 26, further comprising a support positioned on a corresponding tooth, with each of the toothed coils being arranged on a corresponding support.

28. (Previously presented) The electric machine of claim 25, wherein the stator comprises a sheet metal laminate, and wherein the at least one circuit support is positioned on at least several of the supports or on at least several toothed coils or on a sheet metal laminate of the stator.
29. (Previously presented) The electric machine of claim 25, wherein the at least one circuit support further includes functional elements for attaching, contacting, and routing wires of current-carrying elements.
30. (Previously presented) The electric machine of claim 25, wherein the circuit support is formed as a single piece.
31. (Previously presented) The electric machine of claim 29, wherein the circuit support is formed of several pieces adapted for insertion of the functional elements.
32. (Previously presented) The electric machine of claim 25, wherein the circuit support provides interconnectability in one or several wiring planes.
33. (Previously presented) The electric machine of claim 25, wherein the circuit support comprises one or more temperature sensors.
34. (Previously presented) The electric machine of claim 25, wherein the circuit support is produced as an injection molded plastic part.
35. (Previously presented) The electric machine of claim 25, wherein the circuit support is produced in MID (Molded Interconnected Device) technology or lead-frame technology.

36.-38. (Canceled)

39. (Previously presented) The electric machine of claim 25, wherein the cover includes means for attaching the winding strands.
40. (Previously presented) The electric machine of claim 25, wherein the cover includes a strain relief for power supply lines.
41. (Previously presented) The electric machine of claim 25, wherein the circuit support is configured to accommodate different predetermined wiring patterns.
42. (Previously presented) The electric machine of claim 27, wherein the support of the toothed coils includes at least one contact support for contacting the ends of the winding strands.
43. (Previously presented) The electric machine of claim 42, wherein the at least one contact support is attached to the support of the toothed coils.
44. (Withdrawn) A method for producing an electric machine with a stator and a rotor, comprising the steps of:
- providing a stamped lamination for at least one of the stator and the rotor,
 - inserting a winding system constructed of a plurality of toothed coils into slots in the lamination of the stator or rotor,
 - providing at least one circuit support to interconnect end portions of winding strands of the coils, with the circuit support formed as a printed circuit board having formed thereon channels with printed conductor tracks interconnecting the winding strands in the channels in a predetermined wiring pattern and webs arranged between the conductor tracks for separating electrical potentials and lengthening leakage paths between different phases,

the at least one circuit support further comprising snap-on connections engaging with the stator and securing the at least one circuit support on the stator, and meshing webs of a cover with corresponding webs of the at least one circuit support and holding the wiring strands down in the channels and maintaining the leakage paths between the different phases.

45. (Withdrawn) The method of claim 44, wherein each of the toothed coils is wound onto a corresponding support before being inserted into the slots.
46. (Withdrawn) The method of claim 45, further comprising the step of contacting the end portions of the winding strands with a contact support which is attached to a corresponding support.
47. (Withdrawn) The method of claim 46, wherein the contact support includes contact terminals for interconnecting the toothed coil via the circuit support.
48. (Withdrawn) The method of claim 44, wherein the inserting step comprises the step of placing the toothed coils in the slots from the side of the stator bore or, when using a split stator, radially from the outside.